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New England Biolabs Certificate of Analysis

Product Name: Sall-HF®
Catalog Number: R3138S
Concentration: 20,000 U/ml

Unit Definition: One unit is defined as the amount of enzyme required to digest 1 µg

of Lambda DNA (HindIII digest) in 1 hour at 37°C in a total reaction

volume of 50 μl.

Packaging Lot Number: 10126550
Expiration Date: 07/2023
Storage Temperature: -20°C

Storage Conditions: 10 mM Tris-HCl, 50 mM KCl, 1 mM DTT, 0.1 mM EDTA, 50% Glycerol, 300

μg/ml BSA, (pH 7.5 @ 25°C)

Specification Version: PS-R3138S/L/V v2.0

Sall-HF® Component List				
NEB Part Number	Component Description	Lot Number	Individual QC Result	
R3138SVIAL	Sall-HF®	10116250	Pass	
B7024AVIAL	Gel Loading Dye, Purple (6X)	10126634	Pass	
B6004SVIAL	rCutSmart™ Buffer	10124441	Pass	

Assay Name/Specification	Lot # 10126550
Non-Specific DNase Activity (16 Hour) A 50 µl reaction in CutSmart® Buffer containing 1 µg of pBR322 DNA and a minimum of 200 units of Sall-HF® incubated for 16 hours at 37°C results in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.	Pass
Exonuclease Activity (Radioactivity Release) A 50 μl reaction in CutSmart® Buffer containing 1 μg of a mixture of single and double-stranded [³H] E. coli DNA and a minimum of 200 units of Sall-HF® incubated for 4 hours at 37°C releases <0.1% of the total radioactivity.	Pass
Endonuclease Activity (Nicking) A 50 μl reaction in CutSmart® Buffer containing 1 μg of supercoiled PhiX174 DNA and a minimum of 20 units of Sall-HF® incubated for 4 hours at 37°C results in <10% conversion to the nicked form as determined by agarose gel electrophoresis.	Pass
Blue-White Screening (Terminal Integrity) A sample of pUC19 vector linearized with a 10-fold excess of Sall-HF®, religated	Pass



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fragments, >95% can be recut with Sall-HF®.

This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Penghua Zhang Production Scientist

03 Nov 2021

Michael Tonello

Packaging Quality Control Inspector

03 Nov 2021



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